

Laucks

Testing Laboratories, Inc.

940 South Harney St. Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaska Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4421

DATE: June 22, 1987

PO# M2847

REPORT ON: WATER

SAMPLE

IDENTIFICATION: Submitted 06/09/87 and identified as shown below:

ID# 3200 - M2847 Metro waste Discharge taken 6/2/87.

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Chromium	0.27
Zinc	0.14
Copper	0.19
Nickel	0.27

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens
J. M. Owens

JMO:jm

** LATE REPORT
SHOULD HAVE BEEN TURNED
IN 6/2/87 WHEN SAMPLE
WAS TAKEN.*



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Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4422

DATE: June 22, 1987

PO# M2848

REPORT ON: WATER

SAMPLE

IDENTIFICATION: Submitted 06/09/87 and identified as shown below:

ID# 3200 M 2848

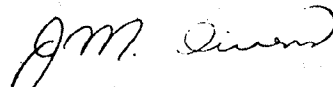
TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Zinc	0.066
Chromium	0.82
Copper	0.30
Nickel	0.58

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J. M. Owens

JMO:jm



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AKC-0015667

Laucks

Testing Laboratories, Inc.

940 South Harney St. Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4423

DATE: June 22, 1987

PO# M2849

REPORT ON: WATER

SAMPLE
IDENTIFICATION: Submitted 06/09/87 and identified as shown below:

ID# 3600 M 2849

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Zinc	2.9
Chromium	2.4
Copper	0.37
Nickel	1.9

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J. M. Owens

JMO:jm



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AKC-0015668

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4580

DATE: July 7, 1987

PO# M2947

REPORT ON: WATER

SAMPLE IDENTIFICATION: Submitted 06/19/87 and identified as shown below:
Metro Waste Discharge ID# 3600-M

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Chromium	0.010
Copper	0.018
Nickel	L/0.01
Zinc	0.019

Key

L/ indicates "less than"

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:1aj



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AKC-0015669

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4606

DATE: July 7, 1987

PO# M 2972

REPORT ON: WATER

SAMPLE IDENTIFICATION: Submitted 06/23/87 and identified as shown below:

Metro Waste Discharge ID# 3200-M 2972

TESTS PERFORMED
AND RESULTS:

parts per million (mg/L)

Chromium	1.2
Copper	0.29
Nickel	0.72
Zinc	0.071

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:1aj



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AKC-0015670

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4579

DATE: July 7, 1987

PO# M2946

REPORT ON: WATER

SAMPLE IDENTIFICATION: Submitted 06/19/87 and identified as shown below:
Metro Waste Discharge Test ID# 3200-M

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Chromium	0.69
Copper	0.20
Nickel	0.45
Zinc	0.035

Key

L/ indicates "less than"

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:1aj



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AKC-0015671

Laucks

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940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4730

DATE: July 13, 1987

PO# M-3056

REPORT ON: NITRIC ACID

SAMPLE
IDENTIFICATION: Submitted 07/01/87 and identified as shown below:

- 1) ID# 3600
- 2) ID# 3200

TESTS PERFORMED AND RESULTS:

	1	2
Total Acidity calculated as, % HNO_3 (methyl orange end point)	9.1	8.1
Specific Gravity at 25°C	1.118	1.266

RECEIVED

JUL 22

MAINTENANCE

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens
J. M. Owens

JMO:1aj

$$\% = \frac{(\text{ml. NaOH}) (N) (.063016)}{\text{wt of sample in gm}} \times 100$$



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AKC-0015672

P

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4730

DATE: July 13, 1987

PO# M-3056

REPORT ON: NITRIC ACID

SAMPLE

IDENTIFICATION: Submitted 07/01/87 and identified as shown below:

- 1) ID# 3600
- 2) ID# 3200

TESTS PERFORMED AND RESULTS:

	1	2
Total Acidity calculated as, % HNO ₃ (methyl orange end point)	9.1	8.1
Specific Gravity at 25°C	1.118	1.266

RECEIVED

JUL 22

MAINTENANCE

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:1aj



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AKC-0015673

Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060



Invoice

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

INVOICE NO. 4730

DATE: July 13, 1987

PO# M-3056

For the analysis of WATER: -----\$80.00

RECEIVED
JUL 22
MAINTENANCE

Net 30 Days

The sole liability of these laboratories for these services, including claims for negligence, strict liability in tort or warranty, shall not exceed the amount of this invoice. Samples may be discarded after analysis unless otherwise requested.



AKC-0015674

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4730

DATE: July 13, 1987

PO# M-3056

REPORT ON: NITRIC ACID

SAMPLE

IDENTIFICATION: Submitted 07/01/87 and identified as shown below:

- 1) ID# 3600
- 2) ID# 3200

TESTS PERFORMED AND RESULTS:

	1	2
Total Acidity calculated as, % HNO ₃ (methyl orange end point)	9.1	8.1
Specific Gravity at 25°C	1.118	1.266

RECEIVED

JUL 22

MAINTENANCE

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

J. M. Owens

JMO:1aj



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AKC-0015675

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4732

DATE: July 17, 1987

PO# M 3058

REPORT ON: WASTE

SAMPLE IDENTIFICATION: Submitted 07/01/87 and identified as shown below:
ID# 3200

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Zinc	0.050
Chromium	0.89
Copper	0.27
Nickel	0.47

RECEIVED
JUL 22
MAINTENANCE

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J. M. Owens

JMO:1aj



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AKC-0015676

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4731

DATE: July 17, 1987

PO# M 3057

REPORT ON: WASTE

SAMPLE

IDENTIFICATION: Submitted 07/01/87 and identified as shown below:

ID# 3600

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Zinc	0.072
Chromium	0.18
Copper	0.031
Nickel	0.09

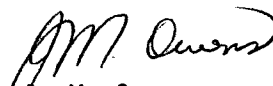
RECEIVED

JUL 22

MAINTENANCE

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J. M. Owens

JMO:1aj



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AKC-0015677

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4788

DATE: July 17, 1987

REPORT ON: WATER

SAMPLE IDENTIFICATION: Submitted 07/07/87 and identified as shown below:
Metro Waste Discharge ID# 3200 M3099

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Chromium	1.0
Copper	0.41
Nickel	0.56
Zinc	0.12

RECEIVED
JUL 22
MAINTENANCE

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J. M. Owens

JMO:1aj



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AKC-0015678

Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology, and Technical Services



Invoice

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

INVOICE NO. 4731

DATE: July 17, 1987

PO# M 3057

For the analysis of WASTE: -----\$44.00

RECEIVED
JUL 22
MAINTENANCE

Net 30 Days

The sole liability of these laboratories for these services, including claims for negligence, strict liability in tort or warranty, shall not exceed the amount of this invoice. Samples may be discarded after analysis unless otherwise requested.



AKC-0015679

Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology, and Technical Services



Invoice

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

INVOICE NO. 4788

DATE: July 17, 1987

For the analysis of WATER: -----\$44.00

RECEIVED
JUL 22
MAINTENANCE

Net 30 Days

The sole liability of these laboratories for these services, including claims for negligence, strict liability in tort or warranty, shall not exceed the amount of this invoice. Samples may be discarded after analysis unless otherwise requested.



AKC-0015680

Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060



Invoice

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

INVOICE NO. 4732
DATE: July 17, 1987
PO# M 3058

For the analysis of WASTE: ----- \$44.00

RECEIVED
JUL 22
MAINTENANCE

Net 30 Days

The sole liability of these laboratories for these services, including claims for negligence, strict liability in tort or warranty, shall not exceed the amount of this invoice. Samples may be discarded after analysis unless otherwise requested.



AKC-0015681

Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology, and Technical Services



Invoice

Alaskan Copper Works
ATTN: Jim Brown
P.O. Box 3546
Seattle, WA 98124

INVOICE NO. 4903

DATE: July 28, 1987

PO #M3159

For analysis of WATER ----- \$44.00

RECEIVED
JUL 30
MAINTENANCE

Net 30 Days

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AKC-0015682

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 4903

DATE: July 28, 1987

PO #M3159

REPORT ON: WATER

SAMPLE

IDENTIFICATION: Submitted 7/14/87 and identified as shown:

Metro Waste Discharge ID# 3200-M315P

parts per million (mg/L)

Chromium
Copper
Nickel
Zinc

0.51
0.21
0.31
0.058

RECEIVED
JUL 30
MAINTENANCE

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:veg



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AKC-0015683

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060

RECEIVED
AUG 8
MAINTENANCE



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 5006

DATE: August 5, 1987

PO# M3232

REPORT ON: WATER

SAMPLE
IDENTIFICATION: Submitted 07/21/87 and identified as shown below:
ID# 3200-M 3232

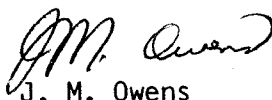
TESTS PERFORMED
AND RESULTS:

parts per million (mg/L)

Zinc	0.077
Chromium	L/0.005
Copper	0.20
Nickel	0.63

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J. M. Owens

JMO:1aj



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AKC-0015684

Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology, and Technical Services



Invoice

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

INVOICE NO. 5006

DATE: August 5, 1987

PO# M3232

For the analysis of WATER: ----- \$ 44.00

RECEIVED
AUG 8
MAINTENANCE

Net 30 Days

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AKC-0015685

Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060



Invoice

Chemistry, Microbiology, and Technical Services

Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

INVOICE NO. 5106

DATE: August 7, 1987

For the analysis of WATER ----- \$ 44.00

Net 30 Days

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AKC-0015686

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 5106

DATE: August 7, 1987

REPORT ON: WATER

SAMPLE

IDENTIFICATION: Submitted 07/28/87 and identified as shown below:

Metro waste discharge ID# 3200-M3305

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Chromium	0.60
Copper	0.15
Nickel	0.28
Zinc	0.026

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

J. M. Owens

JMO:jm



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AKC-0015687

F

Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology, and Technical Services



Invoice

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

INVOICE NO. 5256

DATE: August 14, 1987

PO# M-3357

For the analysis of WASTE DISCHARGE ----- \$44.00

Net 30 Days

The sole liability of these laboratories for these services, including claims for negligence, strict liability in tort or warranty, shall not exceed the amount of this invoice. Samples may be discarded after analysis unless otherwise requested.



AKC-0015688